

**EXHIBIT 19A-L**

**19.A.**

\*\*\*\*\*CONFIDENTIAL DEPOSITION\*\*\*\*\*

IN THE UNITED STATES DISTRICT COURT  
SOUTHERN DISTRICT OF NEW YORK

Leighton Technologies, LLC, )

Plaintiff-Counterclaim )

Defendant, )Case No.

-vs- )04Civ

Oberthur Card Systems, S.A.,)2496(CM)

Defendant-Counterclaim )

Plaintiff. )

- - - o0o - - -

Deposition of KEITH R. LEIGHTON, a  
witness herein, called by the Defendant-  
Counterclaim Plaintiff, as if upon  
cross-examination under the statute, and  
taken before Luanne Stone, a Notary Public  
within and for the State of Ohio, pursuant  
to the issuance of notice and subpoena, and  
pursuant to the further stipulations of  
counsel herein contained, on Sunday, the 9th  
day of October, 2005 at 9:00 o'clock A.M.,  
at the Renaissance Hotel, the City of  
Cleveland, the County of Cuyahoga and the  
State of Ohio.

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1 twice as big is going to have twice as much  
2 pressure as a ram which is half its size?

3 MR. GUTKIN: Lacks foundation. You  
4 can answer.

5 MR. JACOBS: Let me -- let me refresh  
6 the question. I think you're right. It's a  
7 terribly asked question.

8 MR. GUTKIN: It's kind of  
9 interesting, though, where you were going.

10 THE WITNESS: You're getting into  
11 physics where I'm not a person to be doing  
12 that, so --

13 THE VIDEOGRAPHER: Off the record.

14 (At this time a short recess was had.)

15 THE VIDEOGRAPHER: Back on the record.

16 BY MR. JACOBS:

17 Q Mr. Leighton, prior to going off the  
18 record, you indicated that you weren't a  
19 physicist. So, don't answer; don't guess;  
20 don't speculate, but based upon your  
21 experience in doing this for many, many  
22 years, is it -- is it accurate to say that  
23 the pressure in the cold press of a plastic  
24 laminating -- plastic card laminating press  
25 is much higher than that in the heating

1 press?

2 MR. GUTKIN: Vague and ambiguous.

3 You can answer.

4 THE WITNESS: I really don't know the  
5 answers to that question.

6 BY MR. JACOBS:

7 Q Okay.

8 A Because when I went out to Motorola, I  
9 had some equipment I wasn't even familiar  
10 with, and I had a can of worms because I did  
11 not know the pressures that they had on  
12 their laminator. The controls were all  
13 messed up.

14 Q Well, with the plastic card laminators,  
15 have you ever, prior to going to Motorola,  
16 ever worked on a dual-stack laminator for  
17 plastic laminated cards?

18 A No.

19 Q Okay. Now, at Motorola, you laminated  
20 into the card an RF/ID.

21 A Yes.

22 Q What -- what -- what are the components  
23 in an RF/ID module or whatever it's called?  
24 Let me go back. What do you call that thing  
25 that you laminate into the card?

**19.B.**

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1 A That was at CSI or formerly 2B System.

2 Q What kind of press did they have there?

3 A Single-stack laminator.

4 Q And was that -- during that lamination  
5 step again, you -- you -- you -- you had a  
6 heating phase?

7 A Right.

8 Q And you had a cooling phase?

9 A Correct.

10 Q And was the cooling -- was the pressure  
11 used during the cooling at least ten percent  
12 greater than the pressure used in the  
13 heating?

14 A Yes.

15 Q That you remember very clearly?

16 A That I remember very clearly.

17 Q But you don't remember that, in fact, at  
18 Motorola, the pressure during the cooling  
19 was at least ten percent greater than the  
20 heating; is that correct?

21 A The reason I don't remember it at  
22 Motorola is they had different size rams.  
23 We had a single pump doing two different  
24 size rams, so we maintained a ram pressure.

25 Q So, so, it's possible that you used a



1 pressure at Motorola during the cooling that  
2 was at least ten percent greater than the  
3 pressure during the heating; is that  
4 correct?

5 A I'm not sure. I'm not sure.

6 Q Do you have any notes of what you did at  
7 Motorola?

8 A No.

9 Q Who did you work with at Motorola?

10 A One of the gentlemen's name was Ken  
11 Thompson, and the other one was Noel  
12 Eberhard. Don't ask me to spell it.

13 Q Now, you described earlier how at  
14 Motorola they had a large dwell time,  
15 correct?

16 A Right.

17 Q And that was because they had the wrong  
18 type of press?

19 A Correct.

20 Q And that meant because that the pressure  
21 in the cooling press was lower than the  
22 pressure in the heating press, correct?

23 A Correct, that's correct.

24 Q And, so, they went to -- how did they  
25 correct that problem?

**19.C.**

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1 Q Anything else?

2 A It would be much easier. No, I would  
3 say that would cover it.

4 Q Are the pressures and temperatures you  
5 use in your invention different than that  
6 that were used at Motorola?

7 MR. GUTKIN: Vague and ambiguous.  
8 Lacks foundation, compound.

9 THE WITNESS: I don't recall all the  
10 temperatures that I used at Motorola,  
11 because I was in there using many different  
12 temperatures at Motorola. When I left, I  
13 don't know what they did.

14 BY MR. JACOBS:

15 Q I'm not asking what they did while --  
16 after you left. I'm asking solely while you  
17 were there. You can't testify to what you  
18 don't know.

19 A Yeah.

20 Q Well, Motorola did use a heating phase  
21 and followed by a cooling phase, correct?

22 A Right, that's correct.

23 Q Did -- at Motorola, the pressures during  
24 the cooling phase were greater than the  
25 pressures during the heating phase?

1 A I don't know about the surface pressure.  
2 Their ram pressure might have been greater,  
3 but what the surface pressure of the plastic  
4 core sheet, I'm not certain what that was.

5 Q Did you ever know what the surface  
6 pressure at the core sheet was at Motorola?

7 A No, I don't think I ever got that broken  
8 down mathematically.

9 Q And you don't have any documents that  
10 would refresh your recollection --

11 A No.

12 Q -- as to that?

13 A No. Everything I did at Motorola stayed  
14 at Motorola as far as information is  
15 concerned. The documentation that I made  
16 was in a scrapbook log that was kept at  
17 Motorola.

18 Q Do you know where that log is today?

19 A No, I don't.

20 Q Did you make entries in that log?

21 A Only what I was doing there. Yes, I  
22 made entries in that log, but those entries  
23 that I made in the log would only be good  
24 for that type of laminator. It would not  
25 work on any other laminator.

**19.D.**

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1       that correct?

2       A:       Yes, and they were very happy with  
3       what I produced, and then they said: Okay,  
4       now we're over the easy part; let's go to  
5       the hard part, and they changed their  
6       contract agreement, giving me an air wound  
7       coil the size of a dollar to place in their  
8       card, much more difficult to do. So, all my  
9       formulas had to again be changed, and, then,  
10      they provided me with a live chip in the  
11      first ones.

12     Q:       What temperature did -- when you made  
13      this first card or cards that proved your  
14      idea, what temperature -- did you use a  
15      heating phase and a cooling phase followed  
16      by --

17     A:       Yes.

18     Q:       -- a recycling phase?

19     A:       But I cannot recall the temperatures  
20      that I used there or the pressures that I  
21      used.

22     Q:       How did you determine which  
23      temperatures you should use in the heating  
24      phase?

25     A:       I liquefied the plastic that I had

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1 Q: So, you -- and you took this Empire  
2 PVC, and you melted it.

3 A: That is correct.

4 Q: Did you melt it in the laminating  
5 press?

6 A: That is correct.

7 Q: So, you ran a number of experiments;  
8 is that correct?

9 A: Yes.

10 Q: Until you determined that you had  
11 reached a temperature where the plastic  
12 would melt?

13 A: That's correct.

14 Q: How did you determine what pressure  
15 you should use in the heating cycle?

16 A: That was through many tests to go  
17 through to find out if I was achieving a  
18 point where it would be coming out smooth  
19 without voids in the plastic which I would  
20 overcome by the second laminating step in  
21 the first place. I mean, they had a  
22 requirement they wanted to use. I had to  
23 assist them in what they wanted to do.

24 Q: Could you explain how you determined  
25 the pressure during the heating phase?

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1       A:       I kept trying until I found a  
2       temperature and pressure that would produce  
3       a smooth prelam to begin with, which took  
4       many tests.

5       Q:       Did you use a different pressure  
6       during the cooling than you did during the  
7       heating?

8       A:       Yes.

9       Q:       Did you use a higher pressure during  
10      the cooling than you used in the heating?

11      A:       I don't recall all of that, because  
12      they had an antique circuit board, single  
13      function pump, and they changed the plumbing  
14      on their rams, so what the actual pressures  
15      were, I'm not sure.

16      Q:       Well, based on your experience and  
17      your knowledge, was the pressure higher in  
18      the cooling than the pressure in the  
19      heating?

20      A:       I tried to obtain that, yes.

21      Q:       So, you tried -- your goal was to  
22      obtain a higher pressure during the cooling  
23      than in the heating?

24      A:       Right, from my previous knowledge  
25      that I use on all the card manufacturing.

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1 Q: But because of the machinery and the  
2 lack of valves, you don't know exactly how  
3 much higher it was in the cooling than it  
4 was in the heating, correct?

5 A: Right. They had a gauge that showed  
6 bar pressure, but that was pump pressure,  
7 and they changed the plumbing, trying to get  
8 the two laminators to close at the same  
9 time.

10 Q: And this --

11 A: By doing that, it threw all records  
12 off.

13 Q: And this plumbing was changed prior  
14 to the time of your second visit to  
15 Motorola?

16 A: I'm not sure of the time that they  
17 changed it, but they realized they had a  
18 problem. They had a Burkle serviceman  
19 coming out there, trying to advise them what  
20 to do.

21 Q: That wasn't Mr. Sanko?

22 A: No.

23 Q: Someone else?

24 A: It was a man from Burkle, and that  
25 man from Burkle agreed with me. I met the

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**19.F.**

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1       pin this down. In your first couple of days  
2       at Motorola during your second visit when  
3       you proved out your idea --

4       A:       Uh-huh.

5       Q:       -- it was impossible because of  
6       whatever happened to the presses to tell how  
7       much higher the pressure was in the cooling  
8       than it was in the heating?

9       A:       That's correct.

10      Q:       How big was the -- going back to your  
11      first couple of days when they gave you  
12      about the dime size electronics, recalling  
13      your testimony from yesterday, the chip sat  
14      inside the wire wound antenna, correct?

15      A:       Right.

16      Q:       How much smaller was the chip than  
17      the inner diameter of the coil?

18      A:       It could be a couple thousandths of  
19      an inch thinner. The coil actually acted as  
20      a buffer, taking the pressure off the chip  
21      on the particular card.

22      Q:       Yeah.

23      A:       But they had, in turn -- the ones  
24      that they had been producing, they had that  
25      premade up with a soft gel acting as a

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**19.G.**

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                                  ) plaintiff,                    )  
                                  ) vs.                                )  
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                                                                                  ) 04 Civ. 02496 (CM)  
OBERTHUR CARD SYSTEMS, S.A. )  
and OBERTHUR CARD SYSTEMS    )  
OF AMERICA CORP.,                )  
                                  ) defendants.                    )

- - - - -  
(Volume III - pages 522 through 875)  
- - - - -

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1 A Yes.

2 Q Did the heating step follow the -- I'm  
3 sorry. Did the cooling step follow the heating  
4 step?

5 A Yes.

6 Q Was it immediate?

7 A They had a problem with their laminator  
8 because they modified their rams and the  
9 plumbing from the pump.

10 Q All right. Yeah. You said this at your  
11 earlier deposition, it was -- it was a printed  
12 circuit board laminator; is that right?

13 A Right. That's correct.

14 Q And it was designed so that the pressure  
15 during cooling would be less than during  
16 heating, generally?

17 A We didn't actually know the pressures.

18 Q Okay.

19 A Because they have a bar pressure on that  
20 laminator that they could only get a pump  
21 pressure reading, but on this laminator that  
22 Motorola had, they had the hot side a large ram,  
23 the cold side was a smaller ram, and those  
24 should actually be reversed for card  
25 manufacturing purpose.

1 Q Right.

2 A They tried to modify the rams in their  
3 laminator.

4 Q They tried --

5 A To make them close in equal time, but they  
6 couldn't do that while I was there.

7 Q Did they try that prior to when you started  
8 working there?

9 A Yes.

10 Q Okay.

11 A I'm not sure when they modified their rams.  
12 That was done before I come in.

13 Q Do you remember the length of time -- well,  
14 let's start at the beginning. I'd like you to  
15 walk us through your memory of the process that  
16 was used to make the card in Exhibit A. In  
17 other words, if you could walk us through the  
18 steps, heating started at this temperature and  
19 this pressure for this long, if you remember.

20 MR. GUTKIN: Object to form.

21 A I don't recall. I don't recall  
22 temperatures.

23 Q You don't recall any temperatures at all?

24 A No.

25 Q No ranges at all?

**19.H.**

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1 had a service man from Burkle doing everything  
2 that they asked him to do.

3 Q Right.

4 A And he told them, junk it, get a plastic  
5 card laminator.

6 Q Right. But they didn't junk it, right?

7 A That's correct.

8 Q That's the laminator that you were forced  
9 to use when you were consulting for Motorola?

10 A That's all they had when I was there.

11 Q And you knew one problem that you had to  
12 fix was the pressure during heating and cooling  
13 at least had to be the same, the ram pressures  
14 had to be the same, right, or else you weren't  
15 going to make an acceptable card?

16 A In working with it, we tried different  
17 tests.

18 Q Okay. And that was one test you tried?

19 A That's one test we tried, yes.

20 Q Right. Because that's exactly what you  
21 said earlier, that's why --

22 A Right.

23 Q -- that printed circuit board press was not  
24 good for making cards, because the pressures had  
25 to be at least the same in the heating and

1 cooling rams; is that right?

2 A Right. And we didn't even know the  
3 pressures even.

4 Q Okay.

5 A Whether I was -- whether on the cold side  
6 it could be less than on the hot side. I didn't  
7 know.

8 Q You didn't know what actually was happening  
9 in the press?

10 A That's correct.

11 Q But you at least knew that the ram on the  
12 cooling side was much smaller than the ram on  
13 the hot side, right?

14 A Right.

15 Q So you knew the pressure was less  
16 generally, right?

17 A Right.

18 Q As it existed for printed circuit boards,  
19 right?

20 A Right.

21 Q But you couldn't measure exactly what it  
22 was as changes were made to it?

23 A Right. The gauges weren't showing what  
24 they were doing.

25 Q But your goal was to make it at least the



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1 same, right, heating and cooling, you knew that  
2 much going into it, that that was a goal, to  
3 make --

4 A Right.

5 Q -- acceptable cards?

6 A I tried to make a product using their wrong  
7 equipment.

8 Q Right. And one way you tried to fix their  
9 wrong equipment was to equalize -- at least  
10 equalize the pressures in the heating and the  
11 cooling phases.

12 A Trying to, yeah.

13 Q Okay. And did you succeed at that, do you  
14 know, or you couldn't tell for sure?

15 A I didn't know for sure.

16 Q But you think you did, didn't you? You  
17 think you got the pressure at least to the point  
18 in cooling where it was in the heating phase  
19 when you were at Motorola?

20 A I don't know that.

21 Q You don't know for sure?

22 A No.

23 Q You're not -- you have no idea whether you  
24 did or not?

25 A No.

1 Q Do you believe you did?

2 A No.

3 Q How close do you think you came?

4 A I come -- oh, if I had a card that looked  
5 good, the failure rate was very bad, I was  
6 crushing chips and breaking chips.

7 Q So if you -- if you got good results, then  
8 you thought that you had increased the pressure  
9 on the cooling side sufficiently so that you  
10 weren't damaging chips as much?

11 A If I was damaging chips, it showed on the  
12 stainless steel laminating plates, because it  
13 embossed them.

14 Q Right, but that's not exactly what I asked.

15 I'm trying to figure out how much  
16 pressure you put on the cooling side when you  
17 were working at Motorola. Are you with me?

18 A Yes, but I don't know what it was.

19 Q Right. That's -- that's what I'm trying to  
20 explore.

21 A Um-hum.

22 Q You said that based on the equipment, it  
23 was not -- it was not possible for you to tell  
24 exactly what the pressures were.

25 A That's correct.

1 Q Right? But you knew you wanted to increase  
2 the pressure on the cooling side from what had  
3 existed in the Motorola Burkle laminator at the  
4 time; is that right?

5 A That's what I was trying to do --

6 Q Okay.

7 A -- because that's what I had foreknowledge  
8 of before I even started.

9 Q And although you couldn't measure it, you  
10 knew that you increased the pressure  
11 sufficiently in the cooling phase when you made  
12 cards in which the electronic element was not  
13 crushed; is that fair?

14 A Repeat that one.

15 Q In other words, whatever pressure you were  
16 able to achieve in the cooling phase, even  
17 though you couldn't measure it, you knew it was  
18 sufficient when the chips weren't crushed?

19 MR. GUTKIN: Object to form.

20 A I'm not fully understanding what you're  
21 saying here.

22 Q Think about it.

23 A In the lamination process that I had at  
24 Motorola --

25 Q There was no gauge on the machine for you

1 to tell what the pressure was during cooling?

2 A Only pump pressure.

3 Q Okay. And what was the pump pressure that  
4 you read?

5 A I don't recall.

6 Q Do you have any idea at all?

7 A No.

8 Q Okay. And --

9 A I know that in the process you have a tray  
10 of cards going into the hot side, at the same  
11 time you have a tray of cards going into the  
12 cold side, and when you close the laminator on  
13 the hot side, you're also closing it on the cold  
14 side.

15 Q Okay. And there were a number of platens  
16 in that -- in those presses?

17 A That's correct, four daylight openings.

18 Q And there was no compensation in there?

19 A No.

20 Q So the full force of all the platens was on  
21 the cards in the hot phase and the cold phase?

22 A That's correct.

23 Q Okay. And when you say -- what units were  
24 you able to read on the Burkle laminator that  
25 you were using for Motorola of pressure? What

1 were the units of pressure you could read off  
2 the machine?

3 A They had what they call a bar pressure.

4 Q Okay. And bar pressure is units of what?

5 A I'm not sure what their bar pressure units  
6 were because all I had to go by was on the pump,  
7 they had a gauge, it was a dial gauge that told  
8 the --

9 Q What were the units --

10 A PSI pressure.

11 Q You must remember the units on the dial  
12 gauge. What were the units on there?

13 A I'm not -- I'm not sure.

14 Q You can't remember?

15 A No, I can't remember.

16 Q Really?

17 A Really.

18 Q They were in some units of bar pressure on  
19 that gauge?

20 A Pump pressure.

21 Q Pump pressure.

22 A Yeah. Pump pressure can go up to maybe  
23 1,000 pounds of pump pressure.

24 Q Okay. And it's just --

25 A Those gauges are normally zero to 1,000

1 pounds on pump pressure.

2 Q Okay. So you can't remember exactly, but  
3 the units probably were pounds of pressure on  
4 the Burkle --

5 A Right.

6 Q -- press?

7 A Right.

8 Q Okay. And there was some pressure on the  
9 hot side and some pressure on the cold side --

10 A Right.

11 Q -- right?

12 And it wasn't compensated, so that  
13 means that whatever sheet was at the bottom of  
14 all the different platens got all the force of  
15 all the platens on top; is that correct?

16 A That's correct.

17 Q We're not talking -- we're talking about  
18 some pressure on the hot side between zero and  
19 1,000 pounds, right?

20 A Right.

21 Q And some pressure on the cold side in the  
22 Motorola Burkle laminator between zero and 1,000  
23 pounds?

24 A Right.

25 Q Right?



**19.J.**

IN THE UNITED STATES DISTRICT COURT  
FOR THE SOUTHERN DISTRICT OF NEW YORK

- - - - -  
LEIGHTON TECHNOLOGIES, LLC, )

plaintiff, )

vs. ) Case No.

) 04 Civ. 02496 (CM)

OBERTHUR CARD SYSTEMS, S.A. )

and OBERTHUR CARD SYSTEMS )

OF AMERICA CORP., )

defendants. )

- - - - -  
(Volume III - pages 522 through 875)  
- - - - -

Continued videotaped deposition of  
KEITH LEIGHTON, a witness herein, called by the  
defendants as if upon cross-examination, and  
taken before David J. Collier, RPR, Notary  
Public within and for the State of Ohio,  
pursuant to Notice of Deposition and pursuant to  
the further stipulations of counsel herein  
contained, on Monday, the 23rd day of October,  
2006 at 8:02 a.m., at the offices of Tackla &  
Associates, 1020 Ohio Savings Plaza, City of  
Cleveland, County of Cuyahoga and the State of  
Ohio.

**Tackla**  
**& Associates**

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1 Q So what's the minimum pressure, given  
2 everything you know? You were there, you were  
3 working with the Burkle machine, you were the  
4 engineer hired to fix it, right? What's the  
5 minimum pressure that any of the cards saw on  
6 the hot side of the Burkle laminator used at  
7 Motorola?

8 A I don't know.

9 Q What -- it was at least 400 pounds, right?

10 A Your bottom platen carried the weight of  
11 the top platen of four daylight openings.

12 Q Right.

13 A So I'd say start off with -- before any  
14 pressure is applied to it, just bringing the  
15 laminator to closing, you had close to 2,000  
16 pounds of dead weight on top of the PVC sheets.

17 Q Okay. So that's 2,000 pounds minimum on  
18 the card before you apply any pressure?

19 A Correct.

20 Q And the gauge on the machine was 1,000, it  
21 went up to 1,000 pounds?

22 A That's pump pressure.

23 Q Pump pressure. Okay.

24 In addition to the pressure of the  
25 weight of the plates, that's what you mean by

1 "pump pressure"?

2 A Correct.

3 Q So the pump on the press could apply up to  
4 another 1,000 pounds or so on top of the weight  
5 of all the platens?

6 A Right. Having a large ram on the hot side,  
7 when you start to raise, the pumped fluid goes  
8 into the ram, it's going to go to the biggest  
9 opening first.

10 Q Okay.

11 A Lesser resistance. The cold side,  
12 unfortunately, raised up slower than the hot  
13 side did in closing the laminator, then I had to  
14 equalize. So I to this day have no idea what  
15 the pressures were on the hot or the cold side.

16 Q Okay. But you understand --

17 A Or the bar pressures.

18 Q You understand that -- I'm not a -- I'm a  
19 chemical engineer but I'm not a -- I've never  
20 done anything in this field, okay? So you have  
21 to help me understand the ranges of the  
22 magnitudes of what we're talking about, okay?  
23 And you have to help the judge and the jury  
24 understand the kind of numbers we're dealing  
25 with. Do you understand that?

1 A I understand that, yes.

2 Q So for you to say "I have no idea," it  
3 helps us certainly to put it in perspective when  
4 you talk about the numbers that we're talking  
5 about here, like thousands of pounds, okay? Do  
6 you understand what I'm saying?

7 A Um-hum.

8 Q So although you may not remember exactly,  
9 it is very helpful for us for you -- for you to  
10 give us your best memory of the approximate  
11 numbers that we're talking about. Is that fair?

12 A Yes.

13 Q Okay. So let's go back to the hot side of  
14 the Burkle laminator used at Motorola.

15 You said during the heating phase that  
16 was used in that press, okay, the minimum  
17 pressure on any of the laminated cards would be  
18 2,000 pounds; is that right?

19 MR. GUTKIN: Object to form.

20 A Yes, I believe that's -- that would be  
21 true.

22 Q And is that true of the cards they were  
23 making when they were there as well as the cards  
24 that you worked with when you began consulting  
25 for them?

1 MR. GUTKIN: Object to form.

2 A I pulled so many tests there, I can't re --  
3 recall what pressures that were used.

4 Q Right. But -- that's going back to what  
5 you said a minute ago. But again, I'm trying to  
6 get general pressures, all right?

7 A Um-hum.

8 Q We're still talking about a lot of  
9 pressure --

10 A Right.

11 Q -- in the tests that you ran, right?

12 A Right.

13 Q We're not talking about five pounds of  
14 pressures, we're talking about hundreds,  
15 thousands of pounds of pressure.

16 A That's correct. Right.

17 Q That's what you used in the heating phase,  
18 right?

19 A Right.

20 Q At Motorola.

21 A Right.

22 Q And in the cooling phase you were trying to  
23 get pressures that approached what was used in  
24 the heating phase, right?

25 A It was impossible for me to get a pressure

1 greater than the hot side using the same pump  
2 because my fluids went at the same time closing  
3 the hot side.

4 Q Okay. But you were trying to get -- in  
5 terms of the minimum pressure on the cooling  
6 side, it was at least the type of range we're  
7 talking about here, in the range of 2,000 pounds  
8 on the cooling side, right?

9 A Right. Close to that, yes.

10 Q Correct. And it would increase as you went  
11 up in the laminator --

12 A Um-hum.

13 Q -- to the higher layers and levels where  
14 there were additional platens.

15 A Right.

16 Q Right?

17 So you were trying to equalize the  
18 pressure on the cooling side to the pressure on  
19 the heating side in the Burkle laminator at  
20 Motorola; is that right?

21 A They were trying to.

22 Q They were trying to and you were trying --

23 A Right.

24 Q -- to too, right?

25 A Yeah.

1 Q Why are you differentiating between you and  
2 them? They were trying when you got there,  
3 right?

4 A Because they were trying by mechanical  
5 means by changing the plumbing prior to my going  
6 there and trying to change the dwell times  
7 electronically in their circuit boards, in the  
8 controls. I had no control of that.

9 Q Right. But I didn't ask you how it was  
10 being done, I just said you were trying to do  
11 the same thing, you were trying to increase the  
12 pressure during the cooling phase, weren't you,  
13 generally?

14 A I could do no more than shut their  
15 laminators. The pump took over the controls.

16 Q Okay. But you were trying to increase the  
17 pressure during the cooling phase, weren't you,  
18 at Motorola?

19 A All I was trying to do is come out with a  
20 product with what I had to work with.

21 Q Okay. But you knew at the time when you  
22 got there they said this laminator is backwards,  
23 it's for circuit boards, right?

24 A Right.

25 Q It's got a much smaller ram on the cooling



1 side, right?

2 A Right.

3 Q You knew that was a problem, right?

4 A That's a problem right off the bat.

5 Q And you found out they knew it was a  
6 problem too, right?

7 A Right.

8 Q You wanted to increase the pressure on the  
9 cooling side.

10 A Yeah, but they couldn't do it.

11 Q If you could get it to the same pressure as  
12 the heating side, that would have been a good  
13 thing, right?

14 A If they could have at least equalized it,  
15 but we couldn't achieve that goal.

16 Q Well, you didn't know if it was equalized  
17 or not, did you?

18 A No.

19 Q I thought you didn't know exactly what  
20 pressure you got on the cooling side?

21 A That's correct.

22 Q So it might have been equal, you don't  
23 know?

24 A I doubt it.

25 Q But you don't know for sure, do you?

1 A No, I don't.

2 Q And it might have been more, you don't know  
3 for sure, do you?

4 A No.

5 Q So you didn't know --

6 A No. I'll take that back. It was not more.

7 Q How do you know? You don't know for sure.

8 A Because we had more pressure from the ram  
9 size on the hot side.

10 Q Well, how do you know?

11 A Both openings closed at the same time.

12 Q But you said you were trying -- you said  
13 you were trying to equalize the values; do you  
14 remember that? You said that earlier, right?

15 A I don't recall whether I did or not.

16 Q Okay. But you were trying to, weren't you?

17 I remember you said it. You said it  
18 earlier today. You were trying to equalize the  
19 pressures on the heating and cooling side; do  
20 you remember that?

21 A No. I get confused in your question, so --

22 Q You do, okay. All right. Well, we'll let  
23 that testimony stand before. I don't want to  
24 test what you remember, if you said it earlier  
25 or not, but you did say you couldn't remember

1 exactly what the pressures are that you had on  
2 either side; do you remember that?

3 A I couldn't remember the pressures because I  
4 didn't know what they were.

5 Q Okay. So you don't know exactly what --

6 A No.

7 Q -- pressure --

8 A No.

9 Q -- you ultimately got on the heating side.

10 A No.

11 Q You don't know exactly what pressure you  
12 ultimately got on the cooling side.

13 A No.

14 Q Okay. But it was -- it was some pressure  
15 in the hundreds of thousands of pounds; is that  
16 right?

17 A Hundreds of thousands of --

18 Q Hundreds or thousands of pounds.

19 A Hundreds or thousands.

20 Q Right.

21 A Yeah.

22 Q For example, you said that the minimum  
23 pressure that would be experienced was on the  
24 order of 2,000 pounds on the heating or cooling  
25 side.

1 A Um-hum.

2 Q Is that right?

3 A Rephrase that.

4 Q The minimum pressure that would be  
5 experienced on either side, given the weight of  
6 the platens, was 2,000 pounds?

7 A That's correct.

8 Q And what was the size of the sheet that was  
9 being laminated, do you remember, in very --

10 A No.

11 Q -- approximate terms?

12 A No, I don't.

13 Q Well, it was --

14 A I don't remember.

15 Q But you got to remember generally. Again,  
16 we don't -- have no idea. We weren't there.  
17 We're not in this business. I mean, we're not  
18 talking about two inches by two inches, right?

19 A I would be guessing.

20 Q Okay. But I need your best approximation.  
21 It's not two inches by two inches?

22 A We were, I believe, cutting 24 up --

23 Q Okay.

24 A -- on a sheet.

25 Q And about how big was a sheet?

**19.K.**

IN THE UNITED STATES DISTRICT COURT  
FOR THE SOUTHERN DISTRICT OF NEW YORK

- - - - -  
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plaintiff, )

vs. ) Case No.

) 04 Civ. 02496 (CM)

OBERTHUR CARD SYSTEMS, S.A. )

and OBERTHUR CARD SYSTEMS )

OF AMERICA CORP., )

defendants. )

- - - - -  
(Volume III - pages 522 through 875)  
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KEITH LEIGHTON, a witness herein, called by the  
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taken before David J. Collier, RPR, Notary  
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pursuant to Notice of Deposition and pursuant to  
the further stipulations of counsel herein  
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Associates, 1020 Ohio Savings Plaza, City of  
Cleveland, County of Cuyahoga and the State of  
Ohio.

**Tackla**  
**& Associates**  
Court Reporting & Videotaping

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Cleveland, Ohio 44114  
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1 remember that?

2 A Yes. I was wondering, can he read back  
3 through where we left off at?

4 Q Let me -- let me just pick up.

5 A I have to get my chain of thought here.

6 Q Yeah, let me just pick up with it, okay?

7 A Okay.

8 Q We were talking about the heat soak time,  
9 do you remember that, some period of time --

10 A Right.

11 Q -- that it takes?

12 A Right.

13 Q And you said 15 minutes or so.

14 A Right.

15 Q Okay. And then there is an additional time  
16 once the temperature is equalized across all the  
17 inlays of the heating cycle; is that right?

18 A Right. That's correct.

19 Q Okay. Do -- do the inlays -- in the  
20 process you used at Motorola, would the inlays  
21 see heat pretty immediately or would it take  
22 some amount of time before they would feel any  
23 heat?

24 A Well, to -- for the heat to go through the  
25 book entirely from top and bottom, we had to

1 shut the laminator, and this is where the  
2 pressure comes in uncontrolled, I'm not sure  
3 just how much, and we stay in it for a period of  
4 time to soften that plastic to be able to flow  
5 the inlays into the plastic.

6 Q Let me -- let me break that down, okay?  
7 Going back to what you said before, the press,  
8 the laminators heated --

9 A Right.

10 Q -- right, before the --

11 A Prior to -- right.

12 Q Prior to inserting the -- what would you  
13 call the inlay surrounded by the metal plates  
14 that are inserted?

15 A That's a book.

16 Q Okay. Is the entire book inserted?

17 A Right.

18 Q And a book has however many inlays  
19 surrounded by steel plates?

20 A That's correct.

21 Q And felt on the outside?

22 A Right.

23 Q Is that the book?

24 A Top and bottom. That would be the book.

25 Q Okay. And --



**19.L.**

IN THE UNITED STATES DISTRICT COURT  
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LEIGHTON TECHNOLOGIES, LLC, )  
                                   ) plaintiff, )  
                                   ) vs. ) Case No. )  
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# Tackla & Associates

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1 pre-lam between those plates.

2 Q Okay.

3 A So you'd have a buildup of close to  
4 100 pounds.

5 Q Okay. So there would be a steel plate in  
6 between each one of the inlays --

7 A Right.

8 Q -- when you used four of them?

9 A Right.

10 Q Okay. So by --

11 A Top and bottom plates. Yes.

12 Q So by virtue of being in the book alone,  
13 what was the minimum pressure that the inlays  
14 would experience back at Motorola?

15 A Before closing the laminator?

16 Q Yeah.

17 A You would have the weight of the platens  
18 that were above it that weighed close to  
19 400 pounds, plus it had the weight of the metal  
20 plates that were on top of the pre-lams, and I'd  
21 say -- I'd say roughly, if we used all daylight  
22 openings, which at that time we couldn't even do  
23 because we didn't have that many inlays, we had  
24 approximately 600 pounds before any contact with  
25 the top of the platen.